

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/053544

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 C07D471/04 A61K31/4184

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 97/47603 A (ASTRA AKTIEBOLAG; AMIN, KOSRAT; DAHLSTROEM, MIKAEL; NORDBERG, PETER; S) 18 December 1997 (1997-12-18) cited in the application the whole document	1-10
Y	WO 02/34749 A (BYK GULDEN LOMBERG CHEMISCHE FABRIK GMBH; BUHR, WILM; KOHL, BERNHARD;) 2 May 2002 (2002-05-02) the whole document	1-10
Y	WO 01/72756 A (BYK GULDEN LOMBERG CHEMISCHE FABRIK GMBH; SENN-BILFINGER, JOERG; BUHR,) 4 October 2001 (2001-10-04) the whole document	1-10
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

25 April 2005

Date of mailing of the international search report

03/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Deutsch, W

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/053544

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 00/63211 A (BYK GULDEN LOMBERG CHEMISCHE FABRIK GMBH; SENN-BILFINGER, JOERG) 26 October 2000 (2000-10-26) the whole document	1-10
Y	WO 98/42707 A (BYK GULDEN LOMBERG CHEMISCHE FABRIK GMBH; SENN-BILFINGER, JOERG; GRUND) 1 October 1998 (1998-10-01) the whole document	1-10
A	KAMINSKI J J ET AL: "ANTIULCER AGENTS. 5. INHIBITION OF GASTRIC H <sup>+</sup> /K <sup>+</sup> -ATPASE BY SUBSTITUTED IMIDAZOL1,2-A PYRIDINES AND RELATED ANALOGUES AND ITS IMPLICATION IN MODELING THE HIGH AFFINITY POTASSIUM ION BINDING SITE OF THE GASTRIC PROTON PUMP ENZYME" JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, vol. 34, 1991, pages 533-541, XP000919185 ISSN: 0022-2623 the whole document	1-10
A	KAMINSKI J J ET AL: "ANTIULCER AGENTS CONFORMATIONAL CONSIDERATIONS AND THE ANTIULCER ACTIVITY OF SUBSTITUTED IMIDAZOL1,2-A PYRIDINES AND RELATED ANALOGUES" January 1989 (1989-01), JOURNAL OF MEDICINAL CHEMISTRY, AMERICAN CHEMICAL SOCIETY. WASHINGTON, US, PAGE(S) 1686-1700 , XP002008622 ISSN: 0022-2623 the whole document	1-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/053544

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9747603	A	18-12-1997	AT 227273 T	15-11-2002
			AU 712173 B2	28-10-1999
			AU 3199297 A	07-01-1998
			BR 9709666 A	09-05-2000
			CA 2256687 A1	18-12-1997
			CN 1226236 A , C	18-08-1999
			CZ 9804039 A3	12-05-1999
			DE 69716904 D1	12-12-2002
			DE 69716904 T2	24-07-2003
			DK 906288 T3	06-01-2003
			EE 9800430 A	15-06-1999
			EP 0906288 A1	07-04-1999
			ES 2184097 T3	01-04-2003
			HK 1017351 A1	21-02-2003
			HU 0002952 A2	28-05-2001
			ID 18431 A	09-04-1998
			JP 2000512291 T	19-09-2000
			KR 2000016484 A	25-03-2000
			NO 985764 A	09-12-1998
			NZ 332965 A	26-05-2000
			PL 330525 A1	24-05-1999
			PT 906288 T	28-02-2003
			RU 2184113 C2	27-06-2002
			WO 9747603 A1	18-12-1997
			SI 906288 T1	30-04-2003
			SK 165498 A3	11-06-1999
			TR 9802554 T2	22-03-1999
			TW 470742 B	01-01-2002
			US 6465505 B1	15-10-2002
			ZA 9704681 A	25-08-1998
WO 0234749	A	02-05-2002	AU 1056302 A	06-05-2002
			BR 0114873 A	01-07-2003
			CA 2426616 A1	02-05-2002
			WO 0234749 A1	02-05-2002
			EP 1332143 A1	06-08-2003
			HU 0302308 A2	28-11-2003
			JP 2004512338 T	22-04-2004
			NO 20031830 A	24-04-2003
			NZ 525281 A	26-11-2004
			PL 360412 A1	06-09-2004
			SK 5072003 A3	11-09-2003
			US 2004106642 A1	03-06-2004
			US 2004214852 A1	28-10-2004
			ZA 200302038 A	22-04-2004
WO 0172756	A	04-10-2001	AU 6016601 A	08-10-2001
			BR 0109483 A	10-06-2003
			CA 2404474 A1	04-10-2001
			CN 1426414 A	25-06-2003
			CZ 20023194 A3	15-01-2003
			WO 0172756 A1	04-10-2001
			EP 1313740 A1	28-05-2003
			HR 20020854 A2	31-12-2004
			HU 0302331 A2	29-12-2003
			JP 2003528878 T	30-09-2003
			MX PA02009551 A	14-05-2004
			NO 20024662 A	27-09-2002

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/053544

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0172756	A	NZ 520837 A	28-01-2005
		SK 13852002 A3	04-02-2003
		US 2003125327 A1	03-07-2003
		US 2004198764 A1	07-10-2004
		ZA 200207637 A	08-04-2004
WO 0063211	A 26-10-2000	AT 240956 T	15-06-2003
		AU 3966600 A	02-11-2000
		CA 2370231 A1	26-10-2000
		DE 60002855 D1	26-06-2003
		DE 60002855 T2	06-05-2004
		DK 1173439 T3	08-09-2003
		WO 0063211 A1	26-10-2000
		EP 1173439 A1	23-01-2002
		ES 2199810 T3	01-03-2004
		JP 2002542248 T	10-12-2002
		PT 1173439 T	31-10-2003
		SI 1173439 T1	31-10-2003
		US 6503923 B1	07-01-2003
WO 9842707	A 01-10-1998	AT 265455 T	15-05-2004
		AU 740578 B2	08-11-2001
		AU 7520898 A	20-10-1998
		BG 64157 B1	27-02-2004
		BG 103696 A	30-06-2000
		BR 9807883 A	22-02-2000
		CA 2284747 A1	01-10-1998
		CN 1251102 A	19-04-2000
		CN 1508136 A	30-06-2004
		CZ 9903397 A3	12-04-2000
		DE 69823493 D1	03-06-2004
		DK 971922 T3	16-08-2004
		EA 2402 B1	25-04-2002
		EE 9900450 A	17-04-2000
		WO 9842707 A1	01-10-1998
		EP 0971922 A1	19-01-2000
		ES 2219890 T3	01-12-2004
		HR 980147 A1	28-02-1999
		HU 0001555 A2	28-11-2000
		ID 22718 A	09-12-1999
		JP 2001518098 T	09-10-2001
		NO 994584 A	23-11-1999
		NZ 337325 A	29-06-2001
		PL 335699 A1	08-05-2000
		PT 971922 T	30-09-2004
		SI 971922 T1	31-12-2004
		SK 129799 A3	16-05-2000
		TR 9902257 T2	21-12-1999
		TW 593320 B	21-06-2004
		US 6197783 B1	06-03-2001